# The Korean Intellectual Property Office (KR) Publication of Application (A)

# (51) Int.CI. H04M 1/23

(11) Publication No

10-2003-0081929

(43) Publication Date

2003-10-22

(21) Application No

10-2002-0020389

(22) Application Date

2002-04-15

(74) Agent

Jae-Hyeong Cho

(72) Inventor

Jin-Hui Choi

(71) Applicant

Jin-Hui Choi

■ Examination Requested : Requested

(54) METHOD FOR ARRANGING HANGUL INPUT KEYBOARD AND THE KEYBOARD BY THE METHOD

# Abstract

1

#### Machine Translation

# Human Translation

The present invention relates to the hangul input keyboard by the method for arranging hangul input keyboar and method thereof, and it is done by a purpose to facilitate and rapidly input Hangul even though it stubbornly does not confirm the Korean alphabet in the key the Korean alphabet which can be reminded of the shape portraying the location of the square key of the keyboard applied to the various apparatus having the hangul input means of figure is experienced and it arranges in the key. The method for arranging hangul input keyboard of the present invention experiences each Hangul vowel group which can be reminded of figure portraying the location of the square key belonging to the cross hair key group (CK) in which the key o 5 installed at the consonant array step: which experiences each consonant of Hangeul group which can be reminded of figure portraying the location of the square key belonging to the matrix key group (MK) in which the key is arranged to the matrix type of 3 row 3 the heat and which it successively arranges in the key and keyboard of 9 installed at keyboard is arranged to the cross hair and it is made including the vowel arrangement step arranged in the key. Therefore, even though the location of the matching key and Korean alphabet is not looked around according to be rapidly fully aware of the location of the matching key and Korean alphabet, the key of the location in which the shape of the Korean alphabet is associated with is pressed and Hangul can be inputted. Therefore, Hangul can be rapidly inputted as much as it does not have even the number compared with a convention.

# ► Representative Drawing(s)

Fig. 2



The hangul input, keyboard, korean character keypad, keyboard layout, korean alphabet input.

# Descritption

- Brief explanation of the drawing
- 2 Fig. 1 is an isotacticity of the hangul input keyboard for illustrating the basic thought implementing the methoc arranging hangul input keyboard.
- 3 Fig. 2 is a drawing showing the example of the hangul input keyboard according to the present invention in wl Korean alphabet is actually arranged under the thought configuration shown in the keyboard layout of Fig. 1.
- 4 Fig. 3 is a development view showing the example in which the hangul input keyboard following the present in which as shown in Fig. 2, the Korean alphabet is arranged is applied to the mobile communications terminate
- 5 <The description of reference numerals of the main elements in drawings>
- 6 C: central key CK: cross hair key group.
- 7 E: east key FK: function key.
- 8 KB: keyboard MK: matrix key group.
- 9 N: north key S: south area key.
- 10 W: west key.
  - Details of the Invention
  - Purpose of the Invention

#### The Technical Field to which the Invention Belongs and the Prior Art in that Filed

- The present invention relates to the hangul input keyboard by the method for arranging hangul input keyboard method thereof, particularly, to the hangul input keyboard by the method for arranging hangul input keyboard experiences the Korean alphabet which can be reminded of the shape in which the location of the square key keyboard applied to the various apparatus having the hangul input means including all kinds of the communic terminals or a computer etc. is portrayed of figure and it arranges in the key, and in that way facilitate and rap input Hangul even though it stubbornly does not confirm the Korean alphabet arranged in the key. And metho
- Recently, according to the rapid development of the mobile communications technology, the various forms of communications terminals including the cellular phone, PDA etc. is proposed, such mobile communications to gradually up-to-dated with a miniaturization. In this way, the technology which facilitate and rapidly can input I according to the use of the text transfer or the wireless internet drastically increase while the function of the minimal communications terminal is improved is desperately requested.
- 13 For example, there is a problem that as to the Korean letter input system of the mobile communications termi including the cellular phone etc, as disclosed in 1999-24320 A, the consonants or the consonants which move cursor after successively displaying vowels and were displayed or the consonant desiring among vowels or the method for selecting a vowel were proposed in the Korean input mode. It is troublesome to move a cursor in a frequent, it has to display a consonant or a vowel, select a consonant or a vowel as to this Korean letter input and the time very much hangs.

- Moreover, in 1997-2558 A, the cheon ji in vowel input system is so called proposed. The vowel key of 3 is successively pressed and a vowel is inputted according to this system. It is made so that it experiences according to the times arranging a plurality of consonants (consonant group) in moreover, each consonant input key and put the special key and the consonant of the consonant group arranged in the key be successively selected.
- Moreover, disclosed is the system selecting the consonant which arranges only consonants based in 2000-42 moat on a form to the key of the respective one and belonging to the group which the form phase which is no arranged with one or a plurality of function keies in the key is the same. Moreover, in case of a vowel, a plura vowels is arranged to one key and the system selecting a vowel is known by the combination of the times pre the vowel keies.
- According to the prior arts of two kinds of kind as in the above, hangul can be rapidly inputted in comparision consonants or the system displaying vowels and moves a cursor and selects a consonant or a vowel. But the arrangement of the Korean alphabet was not made with the fixed rule which a user easily could recognize cle the group was indefinitely formed. Therefore while the location of the Korean alphabet is one by one confirme user bears mind as much as a user can completely remember the location of the arranged Korean alphabet is keies of a keyboard, the key is pressed and Hangul cannot help being inputted. It is near to a disable, in addit location of the Korean alphabet cannot be materially easily memorized completely memorize. For this reason hangul input time cannot be particularly shortened. Furthermore, the problem that describes in the above at e instrument because the Korean letter input system of the keyboard is different is more deepened.

#### Technicalichallengesjofthe, Invention,

17 The present invention is done by a purpose to facilitate and rapidly input Hangul even though it stubbornly do confirm the korean alphabet in the key it is comprised of consideration of above-described conventional probl arranging in the key the location of the arranged Korean alphabet can be easily memorized in the key.

### Structure & Operation of the Invention

- To accomplish the above objects, the method for arranging hangul input keyboard is characterized that it is me including the vowel arrangement step which experiences each Hangul vowel group which can be reminded of portraying the location of the square key belonging to the cross hair key group in which the key of 5 installed a consonant array step; which experiences each consonant of Hangeul group which can be reminded of figure portraying the location of the square key belonging to the matrix key group in which the key is arranged to the type of 3 row 3 the heat and which it successively arranges in the key and keyboard of 9 installed at a keyboarranged to the cross hair and which it successively arranges in the key.
- As to the consonant array step, when it says to be successively keies belonging to the matrix key group 1 No No. key from the upper row in a left to the right, the consonant group "H" in 8 No. key to the fundamental type No. key to the fundamental type "P" in 6 No. key to the fundamental type "O" in 5 No. key to the fundamental "E" in 4 No. key to the fundamental type "P" in 3 No. key to the fundamental type "No. key to the fundamental type "No. key to the fundamental type "No. key to the fundamental type is successive arranged in and, 9 No. key. In that way style appropriates to the location of 1 No. key or 9 No. key and each cof Hangeul group in which the location is associated with is successively arranged.
- In the vowel arrangement step, when it says to be the east key, the west key, and the south area key and the which says to be the north key and is arranged in these centers the key arranged among keies belonging to the hair key group as the cardinal point direction of 4 the central key, the vowel group "T" in the south area key to fundamental type "-1" in the north key to the fundamental type "-1" in the west key to the fundamental type "-1" east key to the fundamental type the vowel "--" and vowel "--" is successively arranged in and, the central ket way style appropriates to the location of the keies belonging to the cross hair key group and each Hangul vow

in which the location is associated with is successively arranged.

- Moreover, the hangul input keyboard has the hangul input keyboard arranged to the above-described methoc arranging hangul input keyboard as a feature. That is, as to the hangul input keyboard which the present inve made including the matrix key group, in which 9 keies are arranged to the matrix type of 3 row 3 the heat and hair key group in which the key of 5 is arranged to the cross hair: it is characterized that in the square key bel the matrix key group, each Hangul vowel group which can be reminded of figure in which each consonant of I group which can be reminded of figure experiencing and portrays the location of the key is successively indicated.
- As to the hangul input keyboard, when it says to be successively keies belonging to the matrix key group 1 Now 9 Now key from the upper row in a left to the right, the consonant group "p" to the fundamental type of the congroup in which the consonant group "Now key to the fundamental type "A" in 2 Now key to the fundamental type "p" in 3 Now key to the fundamental type "p" in 4 Now key to the fundamental type "p" in 5 Now key to the fundamental type "p" in 6 Now key to the fundamental type "p" in 7 Now key to the fundamental type "p" in 8 Now key to the fundamental type is successively indicated and, 9 Now key.
- Moreover, as to the hangul input keyboard, when it says to be the east key, the west key, and the south area the key which says to be the north key and is arranged in these centers the key arranged among keies belong the cross hair key group as the cardinal point direction of 4 the central key, the vowel "—" and vowel "—" of the group in which the vowel group in which the vowel group "—" in the east key to the fundamental type "—" in the north key to the fundamental type "—south area key to the fundamental type is successively indicated on and, the central key.
- Moreover, the vowel belonging to vowel group displayed on the part which keies belonging are integrated and tub of the form like a stick the cross hair key group of a tub is just made of the key feature, and in that way it experiences and corresponds to the direction key if it pushes down the part corresponding to the everywhere key can be inputted.
- Moreover, the hangul input keyboard is successively inputted according to the times in which the consonant c vowels comprised the vowel group experience and comprised the consonant group in square key pressing the geminate consonant made of the different consonant of a cranium among the final consonant is inputted combination of the keies corresponding to each consonant. And a dipthong can be made among moreover, voorder to the combination of the keies corresponding to each vowel input.
- Moreover, as to the hangul input keyboard, in order to experience with the function key in which the consonar the fundamental consonant are separately more installed among consonants comprised the consonant group square key belonging to the matrix key group in a keyboard and a combination with the key inputs a combination be made.
- Moreover, as to the hangul input keyboard which the present invention is made including the matrix key group which 9 keies are arranged to the matrix type of 3 row 3 the heat and the cross hair key group in which the ke arranged to the cross hair: it is characterized that in the square key belonging to the matrix key group, Fig. in experiences in order to be reminded of the shape of each consonant of Hangeul group which is inputted when experiences and it presses the key and the location of the key is portrayed is successively indicated and figur which it experiences in order to be reminded of the shape of each Hangul vowel group which is inputted wher experiences to the square key belonging to the cross hair key group and it presses the key and the location o

is portrayed is successively indicated.

28	It is preferable that Fig. "I which when says to be successively keies belonging to the matrix key group 1 or 9 No. key as to the hangul input keyboard of this example from the upper row in a left to the right, can be re of the shape of the consonant group "ㅈ" in 1 No. key to the fundamental type is successively indicated can w
	"—" this be reminded of the shape of the consonant group in which figure "—" which can be reminded of the the consonant group in which figure "—" which can be reminded of the shape of the consonant group in which
	" which can be reminded of the shape of the consonant group in which figure " o " which can be reminded shape of the consonant group in which figure " = " reminding of the consonant group in which figure " ¬ " which
	reminded of the shape of the consonant group in which figure "☐ " which can be reminded of the shape of the consonant group "▷" in 2 No. key to the fundamental type "□" in 3 No. key to the fundamental type "□" in 4 to the fundamental type "□" in 5 No. key to the fundamental type "□" in 6 No. key to the fundamental type "□".
	No. key to the fundamental type "" in 8 No. key to the fundamental type "" in and, 9 No. key to the fundamental type "" in and, 9 No. key to the fundamental type. Moreover, it is preferable that in Fig. " } " which when says to be the east key, the west key, and the sou
	key and the key which says to be the north key and is arranged in these centers the key arranged among keis belonging to the cross hair key group as the cardinal point direction of 4 the central key, can be reminded of t
	of the vowel group " } " in the east key to the fundamental type, Fig. "+" which can be reminded of the compositions of the vowel " ] " and vowel "—" of "¬" which can be reminded of the shape of the vowel group in which can be reminded of the shape of the vowel group in which can be reminded of the shape of the vowel group in which can be reminded of the shape of the vowel group in which can be reminded of the shape of the vowel group in which can be reminded of the shape of the vowel group in which can be reminded of the shape of the vowel " — " of "¬" which can be reminded of the shape of the vowel " — " of "¬" which can be reminded of the vowel group in which can be reminded of the vowel " — " of "¬" which can be reminded of the vowel group in which can be
	which can be reminded of the shape of the vowel group in which figure "-]" which can be reminded of the shape vowel group "-]" in the west key to the fundamental type "" in the north key to the fundamental type "" in
	area key to the fundamental type is successively indicated on and, the central key.

- 29 The characteristic of the present invention and advantages will become more clear to the detailed description on of the attached view. An term or the word used before this for this specification and claims has to be interpolated a meaning and the concept complying with for the technical mapping of the invention based on the policy that appropriately can define the concept of a term so that an inventor most illustrate its own an invention as the nabest.
- 30 A keyboard in which the Korean alphabet is actually the arranging method arranged under the thought configuence shown in the keyboard layout of Fig. 1 in Fig. 2 the keyboard layout drawing for explaining the basic thought implemented is illustrated is shown in Fig. 1.
- As shown in figs. 1 and figs. 1 the method for arranging hangul input keyboard experiences each Hangul vow which can be reminded of figure portraying the location of the square key belonging to the cross hair key grou arranged to the cross hair of 5 installed at the consonant array step, which experiences each consonant of Harden which can be reminded of figure portraying the location of the square key belonging to the matrix key g (MK) in which the key is arranged to the matrix type of 3 row 3 the heat and which it successively arranges in and keyboard of 9 installed at keyboard (KB) and it is made including the vowel arrangement step which it successively arranges in the key.
- Moreover, as to the cross hair key group (CK), here the tub like a stick of the tub in which the keies belonging integrated and pushing down the part corresponding to the everywhere direct key can be made in the form of A tub experiences each Hangul vowel groups which can be reminded of figure portraying the location of the p corresponding to the direction key of the key and therefore it successively can arrange in the part correspond key.
- Concretely, the method for arranging hangul input keyboard is implemented under the thought showing up in keyboard layout illustrated in <u>Fig. 1</u>. If it explains the method firstly for arranging a consonant, when it says to successively keies belonging to the matrix key group (MK) 1 No. key or 9 No. key in the upper row in a left to

if it portrays the location of 1 No. key, it can show in the form indicated as the solid line on 1 No. key. And it can reminded among the consonant of Hangeul to "ㅈ" if it draws the line of fire under the solid line center of 1 No. the dotted line. Therefore, as shown in Fig. 2, "ㅈ" which is the fundamental consonant and the consonant grand this as the fundamental type that is, "ㅊ" and "ㅉ" can be together arranged in 1 No. key.

- If the location of 2 No. key is portrayed, it can show in the form indicated as the solid line on 2 No. key. And the reminded to "">" as it more indicates the dotted line in 2 No. key. Therefore, in 2 No. key, "">" which is the fundamental consonant and the consonant group, having this as the fundamental type that is, """ can be tog arranged.
- 35 It can be reminded to "¬" if the location of 3 No. key is portrayed. Therefore, in 3 No. key, "¬" which is the fundamental consonant and the consonant group, having this as the fundamental type that is, "¬" and "¬" כנ together arranged.
- 36 It can be reminded to "□" if the location of 4 No. key is portrayed. Therefore, in 4 No. key, "□" which is the fundamental consonant and the consonant group, having this as the fundamental type that is, "□" and "□" consonant arranged.
- 37 It can be reminded to "o" if the location of 5 No. key is portrayed. Therefore, in 5 No. key, "o" which is the fundamental consonant and "ỡ" which is the consonant which is similar to this of a form can be together arra
- 18 If the location of 6 No. key is portrayed, it can show in the form indicated as the solid line on 6 No. key. And the reminded to "ㄹ" as it more indicates the dotted line in 6 No. key. Therefore, in 6 No. key, "ㄹ" which is the fundamental consonant can be arranged.
- 39 It can be reminded to "└" if the location of 7 No. key is portrayed. Therefore, in 7 No. key, "└" which is the fundamental consonant can be arranged.
- If the location of 8 No. key is portrayed, it can show in the form indicated as the solid line on 8 No. key. And the reminded to "由" as it more indicates the dotted line in 8 No. key. Therefore, in 8 No. key, "由" which is the fundamental consonant and the consonant group, having this as the fundamental type that is, "立" and "地" cat together arranged.
- 41 If the location of 9 No. key is portrayed, it can show in the form indicated as the solid line on 9 No. key. And the reminded to """ as it more indicates the dotted line in 9 No. key. Therefore, in 9 No. key, """ which is the fundamental consonant can be arranged.
- In the meantime, if the method for arranging a vowel is explained, when it says to be the east key (E), the were (W), and the south area key (S) and the key which says to be the north key (N) and is arranged in these central key arranged among keies belonging to the cross hair key group (CK) as the cardinal point direction of 4 the cross key (C), it can be reminded to " \rangle " if the location of the east key (E) is portrayed. Therefore, in the east key (E which is the cardinal vowel and the vowel group, having this as the fundamental type that is, " \rangle " can be toge arranged.
- 43 It can be reminded to "∃" if the location of the west key (W) is portrayed. Therefore, in the west key (W), "∃" the cardinal vowel and the vowel group, having this as the fundamental type that is, "∃" can be together arra
- It can be reminded to "¬¬" if the location of the north key (N) is portrayed. Therefore, in the north key (N), "¬¬" the cardinal vowel and the vowel group, having this as the fundamental type that is, "¬¬¬" can be together arra

- 45 It can be reminded to "¬" if the location of the south area key (S) is portrayed. Therefore, in the north key (N) which is the cardinal vowel and the vowel group, having this as the fundamental type that is, "¬¬" can be toge arranged.
- 46 If the central key (C) placed in the center of keies is portrayed "+", it can be reminded to the shape of a charand " ] " which is the cardinal vowel are merged and the modified cross-sectional shape can be reminded. The in the central key (C), "—" and " ] " which is the cardinal vowel can be together arranged.
- Moreover, in case the keies belonging to the cross hair key group (CK) of 5 are integrated in for example, the <u>figs. 1</u> and <u>figs. 1</u> and a tub of the cross hair key group (CK) is made of the key feature, the vowel of Hangeul arranged in the part corresponding to the keies of 5 like the upper part.
- For example, the keyboard (KB) in which the Korean alphabet is arranged is applied to Fig. 3 by the array me described above. The consonant of Hangeul group which can be reminded of figure portraying the location of square key among the numeric keies comprised the matrix key group (MK) of 9 experiences and it is success indicated on the key. The Hangul vowel group which can be reminded of figure portraying the location of the skey among the keies comprised the cross hair key group (CK) on the top of the matrix key group (MK) of 5 experiences and the example in which the keyboard (KB) successively indicated on the key is applied to the r communications terminal is illustrated.
- 49 It is successively inputted according to the times in which the consonant or the vowels comprised the vowel g experience and comprised the consonant group in the square key as to the mobile communications terminal c example illustrated in Fig. 3 pressing the key. Moreover, as to the geminate consonant made of the different consonant of a cranium among the final consonant, the combination of the keies corresponding to each consciput. Moreover, a dipthong can be inputted by the combination of the keies corresponding to each vowel amoved.
- For example, when the word is inputted, it is the fried chicken a person is the single and 5 No. key a twice, ar north key (N) 4 No. key inputted if it successively presses with the single. When it successively presses with the a person is the single and 3 No. key 1 burn, 6 No. key the single, and the east key (E) 4 No. key inputted, the method of Hangul the word is inputted, it is an one, more, for example, the ancient time a person is a twice ar key a twice, and the central key (C) the single, and the west key (W) 5 No. key inputted if it successively presses with the single "day".
- Moreover, as to the consonants except the fundamental consonant, in order to experience with the function k separately more installed in the keyboard (KB) and a combination with the key inputs a combination can be m function key (FK) configuration shown in <u>Fig. 3</u> does not pass in the example which it only conveniently indication addition it can utilize the key installed in the other location as the function key (FK) it separately more sets to key in the other location and it can utilize as the function key (FK).
- Moreover, the vowel belonging to vowel group displayed on the corresponding part according to the times wh keies belonging to the cross hair key group (CK) of 5 are integrated in for example, the form like <u>figs. 1</u> and <u>fix</u> a tub of the cross hair key group (CK) is made of the key feature, and in case the vowel of Hangeul is indicate part corresponding to the keies in which a detuning describes in the above among the cross hair key group (Ckey feature of 5 like the upper part, presses the corresponding part can be successively indicated.
- If the input of the hangul as described above inputs a consonant with for example, the left hand with the thing experiencing and can be rapidly fully aware of the location of the keies about the Korean alphabet it manipula matrix key group (MK) and it inputs \*\*\* Romo negative number it manipulates the cross hair key group (CK), i

can perform as much as the input of the hangul as described above does not have even the number compare convention.

- Moreover, as to the korean character keypad, Fig. joining the part expressed in this figure and dotted line of the portraying the location of the square key as illustrated in Fig. 1 which is not Korean alphabet or the shape exprand figure is successively indicated on the key and it can be made. And since the action is the same like the adescribed bar, the detailed description of the complementary rare book omits.
- In the upper part, it showed and it illustrated for the hangul input keyboard by the method for arranging hangu keyboard applied to for convenience mobile communications terminal and method thereof. But the present in can be applied to various kinds of various apparatuses equipped with not only the various kinds communication device but also a computer, including, the hangul input means including PDA etc. It has to be moreover altographically included in the scope of the present invention with thing.

#### Effects of the Invention

As described above, as to the hangul input keyboard by the comprised method for arranging hangul input key and method thereof, the Korean alphabet which can be reminded of the shape portraying the location of the s key of a keyboard of figure experiences and it is arranged in the key. Therefore, even though the location of the matching key and Korean alphabet is not looked around according to be rapidly fully aware of the location of the matching key and Korean alphabet, the key of the location in which the shape of the Korean alphabet is assowith is pressed and Hangul can be inputted. Therefore, hangul can be rapidly inputted as much as it does not even the number compared with a convention.

# Scope of Claims

#### Claim[1]:

57 The method for arranging hangul input keyboard wherein each Hangul vowel group which can be reminded o portraying the location of the square key belonging to the cross hair key group (CK) in which the key of 5 instruction that the consonant array step: which experiences each consonant of Hangeul group which can be reminded of fig portraying the location of the square key belonging to the matrix key group (MK) in which the key is arranged matrix type of 3 row 3 the heat and which it successively arranges in the key and keyboard of 9 installed at a is arranged to the cross hair is experienced and it is made including the vowel arrangement step which it successively arranges in the key.

# Claim[2]:

The method for arranging hangul input keyboard of claim 1, wherein in the consonant array step, it says to be successively keies belonging to the matrix key group (MK) 1 No. key or 9 No. key from the upper row in a left right; the consonant group """ in 8 No. key to the fundamental type """ in 7 No. key to the fundamental type No. key to the fundamental type "o" in 5 No. key to the fundamental type "" in 4 No. key to the fundamental "" in 3 No. key to the fundamental type "" in 2 No. key to the fundamental type "" in 1 No. key to the fundamental type the consonant group "" to the fundamental type says to be successively arranged in and, 9 No. key and to be the east key, the west key, and the south area key and the key which says to be the north key and is arrangement step among keies belonging to the cross hair key g as the cardinal point direction of 4 the central key (C); and the vowel group "" in the south area key to the fundamental type " in the north key to the fundamental type " in the west key to the fundamental type " east key to the fundamental type the vowel "—" and vowel " in is successively arranged in and, the central key to the fundamental type the vowel "—" and vowel " in its successively arranged in and, the central key to the fundamental type " in the vowel " in the vowel " in the central key to the fundamental type " in the central key to the fundamental type " in the vowel " in its successively arranged in and, the central key to the fundamental type " in the vowel " in the vo

#### Claim[3]:

As to the hangul input keyboard made including the matrix key group (MK), in which 9 keies are arranged to t type of 3 row 3 the heat and the cross hair key group (CK) in which the key of 5 is arranged to the cross hair:

The hangul input keyboard wherein in the square key belonging to the matrix key group (MK), each Hangul vor group which can be reminded of figure in which each consonant of Hangeul group which can be reminded of experiencing and portrays the location of the key is successively indicated and experiencing to the square key belonging to the cross hair key group (CK) and portraying the location of the key is successively indicated.

#### Claim[4]:

The hangul input keyboard of claim 3, wherein it says to be successively keies belonging to the matrix key grand 1 No. key or 9 No. key from the upper row in a left to the right; the consonant group "D" to the fundamental ty to be successively indicated on and, 9 No. key and the consonant group in which the consonant group "A" in 1 No. key to the fundamental type "A" in 2 No. key fundamental type "D" in 3 No. key to the fundamental type "D" in 4 No. key to the fundamental type "D" in 5 to the fundamental type "D" in 6 No. key to the fundamental type "D" in 7 No. key to the fundamental type "E No. key to the fundamental type be the east key, the west key, and the south area key and the key which say the north key and is arranged in these centers the key arranged among keies belonging to the cross hair key (CK) as the cardinal point direction of 4 the central key (C); and the vowel "—" and vowel "] " of the vowel group in which the vowel group in which the vowel group "] in the east key to the fundamental type "T" in the south are the fundamental type is successively indicated on and, the central key (C).

# Claim[5]:

The hangul input keyboard of claim 4, wherein the consonants comprised the consonant group in the square the vowels comprised the vowel group are successively inputted according to the times experiencing and prekey.

## Claim[6]:

70 The hangul input keyboard of claim 4 or 5, wherein in the geminate consonant made of the different consonal cranium among the final consonant, the combination of the keies coming under each consonant among the r group (MK) inputs; and a dipthong is inputted by the combination of the keies corresponding to each vowel ar vowels.

# Claim[7]:

72 The hangul input keyboard of claim 4 or 5, wherein the consonants except the fundamental consonant among consonant comprised the consonant group in the square key belonging to the matrix key group (MK) experier the function key separately more installed in a keyboard and a combination with the key inputs.

## Claim[8]:

74 The hangul input keyboard of any one of claims 3 through 5, wherein in the cross hair key group (CK), the tut the vowel belonging to the vowel group displayed on the part which experiences and corresponds to the direct if keies which here belong are integrated and it pushes down the part corresponding to the everywhere direct be inputted is made of the key feature.

#### Claim[9]:

- As to the hangul input keyboard made including the matrix key group (MK), in which 9 keies are arranged to t type of 3 row 3 the heat and the cross hair key group (CK) in which the key of 5 is arranged to the cross hair:
- The hangul input keyboard wherein in the square key belonging to the matrix key group (MK), Fig. in which it experiences in order to be reminded of the shape of each consonant of Hangeul group which is inputted where experiences and it presses the key and the location of the key is portrayed is successively indicated and it ex

in order to be reminded of the shape of each Hangul vowel group which is inputted whenever it experiences t square key belonging to the cross hair key group (CK) and it presses the key and figure in which the location key is portrayed is successively indicated.

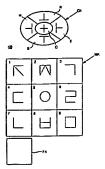
# Claim[10]:

The hangul input keyboard of claim 9, wherein it says to be successively keies belonging to the matrix key gre 1 No. key or 9 No. key from the upper row in a left to the right; it says to be successively indicated with figure and can be reminded of the shape of the consonant group in which figure "" which can be reminded of the the consonant group in which figure "L" which can be reminded of the shape of the consonant group in which I" which can be reminded of the shape of the consonant group in which figure "o" which can be reminded shape of the consonant group in which figure "=" reminding of the consonant group in which figure "¬" which reminded of the shape of the consonant group in which figure " which can be reminded of the shape of the consonant group in which figure " which can be reminded of the shape of the consonant group "ス" in 1 N the fundamental type "\tau" in 2 No. key to the fundamental type "\tau" in 3 No. key to the fundamental type "\tau" key to the fundamental type "o" in 5 No. key to the fundamental type "e" in 6 No. key to the fundamental type 7 No. key to the fundamental type "" in 8 No. key to the fundamental type "" in and, 9 No. key to the fundamental type "" in a no. key t type it be the east key, the west key, and the south area key and the key which says to be the north key and i arranged in these centers the key arranged among keies belonging to the cross hair key group (CK) as the ca point direction of 4 the central key (C); and figure "+" which can be reminded of the composite shape of the vo and vowel "-" of "T" which can be reminded of the shape of the vowel group in which "4" which can be rem the shape of the vowel group in which figure " -] " which can be reminded of the shape of the vowel group in w figure " } " which can be reminded of the shape of the vowel group " } " in the east key to the fundamental typ the west key to the fundamental type "\_\_" in the north key to the fundamental type "\_\_" in the south area key t fundamental type is successively indicated on and, the central key (C).

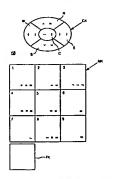
#### Claim[11]:

The hangul input keyboard of claim 9 or 10, wherein in the cross hair key group (CK), the tub in which the vow belonging to the vowel group displayed on the part which experiences and corresponds to the direction key if which here belong are integrated and it pushes down the part corresponding to the everywhere direct key car inputted is made of the key feature.





o Fig. 1





o Fig. 3